

having a frequency of 0 Hz.

Since the local oscillator is oscillated at 824 to 530 MHz, the dividing rate of the second programmable divider is set to  $1/3$  and the dividing rate of the third programmable divider is set to  $1/4$  in the TV receiving tuner of the present invention, the TV signal of Japan can be converted into an intermediate-frequency signal having a frequency of 57 MHz.

Since the local oscillator is oscillated at 767 to 473 MHz, the dividing rate of the second programmable divider is set to  $1/3$  and the dividing rate of the third programmable divider is set to  $1/6$  in the TV receiving tuner of the present invention, the TV signal of Japan can be converted into an intermediate-frequency signal having a frequency of 0 Hz.